



MODERNIZATION SOLAR

New energy battery cabinet crashed





Overview

To further grasp the failure process and explosion hazard of battery thermal runaway gas, numerical modeling and investigation were carried out based on a severe battery fire and explosion accident in a lit.

What is the explosion hazard of battery thermal runaway gas?

The thermal runaway gas explosion hazard in BESS was systematically studied. To further grasp the failure process and explosion hazard of battery thermal runaway gas, numerical modeling and investigation were carried out based on a severe battery fire and explosion accident in a lithium-ion battery energy storage system (LIBESS) in China.

Does the battery energy storage industry use system analysis?

In view of the analysis of the complexity of socio-technical systems, there are few cases in which the battery energy storage industry uses system analysis methods to carry out cause analysis. Therefore, based on the STAMP model, the thermal runaway diffusion explosion accident of the BESS was systematically analyzed.

What causes thermal runaway of lithium ion batteries?

The fire burned one battery unit and 416 battery packs. The causes of thermal runaway of LIBs mainly include mechanical abuse represented by inter-cell collision and extrusion, pinprick, electrical abuse represented by battery overcharge, fast charging, internal short circuit and thermal abuse represented by high temperature .

What happened to Lib cabinets?

According to the post-investigation statistics, the LIB cabinet stored in the south building was overheated, and the roof above the fifth group of battery cabinets from west to east was burned and cracked, and the concrete part of the top floor was missing.



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